WHAT IS CLAIMED IS

1. A communication apparatus comprising:

a semiconductor DAA having a line control unit connected to a communication line network and a serial IF unit connected to the line control unit via an isolating circuit, the semiconductor DAA controlling the communication line network and transmitting and receiving data;

a modem for modulating and demodulating the transmitted and received data; and

a system unit for controlling the semiconductor DAA and the modem, wherein:

the line control unit includes a line current detector for detecting a line current, and a line voltage detector for detecting a line voltage; and

the system unit obtains line impedance based on the line current and the line voltage, and adjusts a transmission level of the modem in accordance with the obtained line impedance.

2. The communication apparatus as claimed in Claim 1 wherein,

the system unit determines whether the line current detected by the line current detector is within a predetermined range, and notifies a user of a line failure if the line current is not within the predetermined range.

3. The communication apparatus as claimed in Claim 1 wherein,

the system unit determines whether the line voltage detected by the line voltage detector is within a predetermined range, and notifies a user of a line failure if the line voltage is not within the predetermined range.

4. The communication apparatus as claimed in Claim 1 wherein,

the line current detector and the line voltage detector start to detect the line current and the line voltage, respectively, in response to a detection start signal from the system unit.

5. A communication apparatus comprising:

a semiconductor DAA having line controlling means connected to a communication line network and serial IF means connected to the line controlling means via an isolating circuit, the semiconductor DAA controlling the communication line network and transmitting and receiving data;

modem means for modulating and demodulating the transmitted and received data; and

a system unit for controlling the semiconductor DAA and the modem means, wherein:

the line controlling means include line current detecting means for detecting a line current,

and line voltage detecting means for detecting a line voltage; and

the system unit obtains line impedance based on the line current and the line voltage, and adjusts a transmission level of the modem means in accordance with the obtained line impedance.

6. The communication apparatus as claimed in Claim 5 wherein,

the system unit determines whether the line current detected by the line current detecting means is within a predetermined range, and notifies a user of a line failure if the line current is not within the predetermined range.

7. The communication apparatus as claimed in Claim 5 wherein,

the system unit determines whether the line voltage detected by the line voltage detecting

means is within a predetermined range, and notifies a user of a line failure if the line voltage is not within the predetermined range.

8. The communication apparatus as claimed in Claim 5 wherein,

the line current detecting means and the line voltage detecting means start to detect the line current and the line voltage, respectively, in response to a detection start signal from the system unit.

9. A method for adjusting a transmission level of a modem in a communication apparatus comprising: a semiconductor DAA having a line control unit connected to a communication line network and a serial IF unit connected to the line control unit via an isolating circuit, the semiconductor DAA controlling the communication line

network and transmitting and receiving data; the modem for modulating and demodulating the transmitted and received data; and a system unit for controlling the semiconductor DAA and the modem, the method comprising the steps of:

detecting a line current with a line current detector in the line control unit;

detecting a line voltage with a line voltage detector in the line control unit;

obtaining line impedance based on the line current and the line voltage with the system unit; and

adjusting the transmission level of the modem in accordance with the obtained line impedance.